Claims

1. An apparatus for use with a disc data reading apparatus, comprising:

a housing having a front edge and a protrusion connected to the front edge; and

a panel, the panel being selectively connected to the front edge, the panel having a first surface corresponding to the protrusion;

wherein, a force existing between the protrusion and the first surface limits relative displacement between the panel and the housing for preventing a cracked disc flying out of the disc data reading apparatus.

2. The apparatus of claim 1, wherein the panel further comprises a depression, the first surface being a side-wall of the depression, as the housing is connected to the panel, the protrusion is received within the depression.

3. The apparatus of claim 1, wherein the housing further comprises a stopper, connected to the front edge and extending downward from the front edge, for blocking the cracked disc.

4. The apparatus of claim 1, further comprising a tray and a chassis, the tray including a support point, as the disc becomes cracked, the support point touches against the chassis and receives a reaction force limiting relative displacement between the tray and the chassis.

5. The apparatus of claim 1, further comprising a tray and a chassis, the chassis including a support point, as the disc becomes cracked, the support point touches

against the tray and receives a reaction force limiting relative displacement between the tray and the chassis.

6. An apparatus for use with a disc data reading apparatus, comprising:

a panel having a side edge and a protrusion connected to the side edge; and

a housing, the housing being selectively connected to the side edge, the housing having a first surface corresponding to the protrusion;

wherein, a force existing between the protrusion and the first surface limits relative displacement between the panel and the housing for preventing a cracked disc from flying out of the disc data reading apparatus.

7. The apparatus of claim 6, wherein the housing further comprises a depression, the first surface being a side-wall of the depression, as the housing is connected to the panel, the protrusion is received within the depression.

8. The apparatus of claim 6, wherein the housing further comprises a stopper, connected to the front edge and extending downward from the front edge, for blocking the cracked disc.

9. The apparatus of claim 6, further comprising a tray and a chassis, the tray including a support point, as the disc becomes cracked, the support point touches against the chassis and receives a reaction force limiting relative displacement between the tray and the chassis.

10. The apparatus of claim 6, further comprising a tray and a chassis, the chassis including a support point, as the disc becomes cracked, the support point touches against the tray and receives a reaction force limiting relative displacement between the tray and the chassis.

11. A disc data reading apparatus comprising:

a housing having an opening, the opening defining a front edge and the front edge extending to form a protrusion; and

a panel, the panel being selectively connected to the front edge, the panel including a first surface corresponding to the protrusion;

wherein, a force existing between the protrusion and the first surface limits relative displacement between the panel and the front edge for preventing a cracked disc flying out of the disc data reading apparatus.

12. The disc data reading apparatus of claim 11, wherein the panel further comprises a depression, the first surface being a side-wall of the depression, as the front edge is connected to the panel, the protrusion is received within the depression.

13. The disc data reading apparatus of claim 11, wherein the housing further comprises a stopper, connected to the front edge and extending downward from the front edge, for blocking the cracked disc.

14. The disc data reading apparatus of claim 11 further comprising a tray and a chassis, the tray including a support point, as the disc becomes cracked, the support point

touches against the chassis and receives a reaction force limiting relative displacement between the tray and the chassis.

15. The disc data reading apparatus of claim 11, further comprising a tray and a chassis, the chassis including a support point, as the disc becomes cracked, the support point touches against the tray and receives a reaction force limiting relative displacement between the tray and the chassis.

16. A disc data reading apparatus comprising:

a panel having a side edge provided with a protrusion; and

a housing having an opening, the opening defining a front edge selectively attaching to the side edge, the front edge being provided with a first surface corresponding to the protrusion;

wherein, a force existing between the protrusion and the first surface limits relative displacement between the panel and the housing for preventing a cracked disc from flying out of the disc data reading apparatus.

17. The disc data reading apparatus of claim 16, wherein the housing further comprises a depression, the first surface being a side-wall of the depression, as the housing is connected to the panel, the protrusion is received within the depression.

18. The disc data reading apparatus of claim 16, wherein the housing further comprises a stopper, connected to the front edge and extending downward from the front edge, for blocking the cracked disc.

19. The disc data reading apparatus of claim 16 further comprising a tray and a chassis, the tray including a support point, as the disc becomes cracked, the support point touches against the chassis and receives a reaction force limiting relative displacement between the tray and the chassis.

20. The disc data reading apparatus of claim 16, further comprising a tray and a chassis, the chassis including a support point, as the disc becomes cracked, the support point touches against the tray and receives a reaction force limiting relative displacement between the tray and the chassis.